

## 作业 #7

1. Define a function that can swap two real numbers, and then write a program that can sort an array of 20 real numbers in ascending order by calling the swap function.
2. Define the following string functions:  
`int strcmpare(char *s1, char *s2);` //be equivalent to `strcmp()`  
`void strcpy(char *s1, char *s2);` //be equivalent to `strcpy()`  
`int strlenth(char *s);` //be equivalent to `strlen()`  
`char * strlower(char *s);` //be equivalent to `strlwr()`

and write a main function to test them.

[\[sample\]](#)

```
Enter your string: My motherland!
The length of your string is 14
The Lower case of your string is my motherland!
The copy of your string is my motherland!

Enter two strings:
Tomy is ok
tomy is OK

The first string is smaller than the second one!

Enter two strings:
ok
OK

The first string is larger than the second one!

Enter two strings:
tomy is ok
tomy is ok

The first string is equal to the second one!
```

3. Given an array  
`char *weekdays[10]={ "Sunday","Monday","Tuesday","Wednesday","Thursday",  
"Friday","Saturday" };`  
Write a program to sort the strings in the array and output them.

[\[sample\]](#)

```
Before sorting ...
Sunday Monday Tuesday Wednesday Thursday Friday Saturday

After sorting ...
Friday Monday Saturday Sunday Thursday Tuesday Wednesday
```

or

```
Before sorting ...
Sunday Monday Tuesday Wednesday Thursday Friday Saturday

After sorting ...
Wednesday Tuesday Thursday Sunday Saturday Monday Friday
```